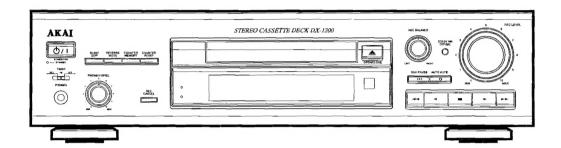
AKAI SERVICE MANUAL



STEREO CASSETTE DECK

SPECIFICATIONS

MODEL DX-1200

| Track system | 1 trook | 2 channel | otoroc |
|--------------|---------|-----------|--------|
| | | | |

· Recording system : AC bias

Erasing system : AC erasing

Tape speed: 4.8cm/sec

· Motor: DC motor

Frequency response

Normal: 40~14,000Hz CrO2: 40~15,000Hz Metal: 40~16,000Hz

· FF and REW time: 120sec

(C-60 cassette tape)

Wow/Flutter: 0.1% (JIS. WRMS)

S/N ratio

DOLBY C NR ON: 75dB(CCIR/ARM)
DOLBY B NR ON: 65dB(CCIR/ARM)
DOLBY NR OFF: 55dB(CCIR/ARM)

| G | Εľ | u | F | R | Δ | 1 |
|---|----|---|---|---|---|---|
| u | | w | _ | п | _ | _ |

· Power consumption: 13W

Power supply: AC 230V, 50Hz [E/B/S]

AC 230V/120V, 50~60HZ [U] AC 120V, 60HZ [U.S.A/CANADA]

Dimension(W×H×D): 430×111×330mm

Weight: 4.9kg (net)

Standard accessories

| Audio signal connection cord · · · · · · · 2 |
|---|
| Remote control connection cord · · · · · · · 1 |
| Remote control unit · · · · · · · 1 |
| Operator's manual · · · · · · · · · · · · · · · · · · · |

- * For improvement purposes, specifications and design are subject to change without notice.
- * Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang and Olufsen.
- * "DOLBY", the double-D symbol and "HX Pro" are trademarks of Dolby Laboratories Licensing Corporation.

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SAFETY INSTRUCTIONS

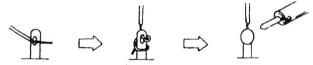
PRECAUTIONS DURING SERVICING

- Parts identifide by the (*)symbol parts are critical for safety. Replace only with parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.

These must also be replaced only with specifide replacements.

Examples :RF converters, tuner units, antenna selectswitches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers(insulating barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing micro switches
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- 6. Make sure that wires to do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.



Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

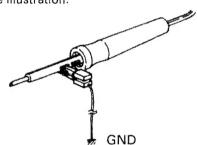
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2M Ohms.

PRECAUTIONS IN REPAIRING

When repairing or adjusting the unit, please note the following points.

- Do not put excessive pressure on the mechanical part (operation part), including the pick-up block, as extremely high mechanical precision is required in these parts.
- 2. When the base is removed for repair adjustment, make sure that there are no metal objects in the narrow gap between the P. C. board or the mecha parts and the base
- The Micro-Computer and the CD signal processing ICs can be damaged by static electricity or leakage from a soldering iron during repairing. While soldering, please take the precautions against leakage as in the illustration.



- Do not loosen any screws in the pick-up block.
 When handing the pick-up block, please refer to the points to NOTE when replacing the pick-up block.
- Keep safety for hazardous invisible Laser Radiation, DO NOT watch the Laser Beam (Objective lens) directly.
- 6. Models for some countries, laser warning labels are affixed on the unit and inside of the unit, as shown below. Read it carefully for your safety, when repairing or adjusting the unit.

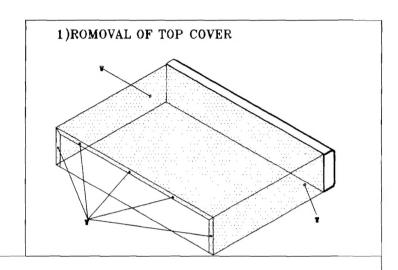
INFORMATION

SYMBOLS FOR PRIMARY DESTINATION

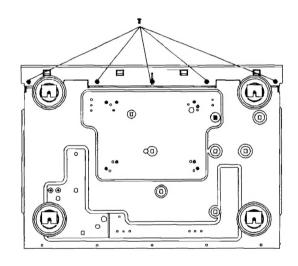
Primary destination of units are indicated with the following alphabet.

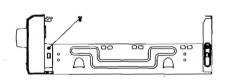
| Symbols | Principal Destinations |
|---------|------------------------|
| В | UK |
| Е | Europe (except UK) |
| S | Australia |
| U | Universal Area |
| Υ* | Custom version |

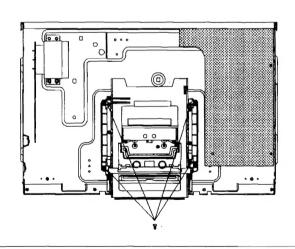
DISASSEMBLY



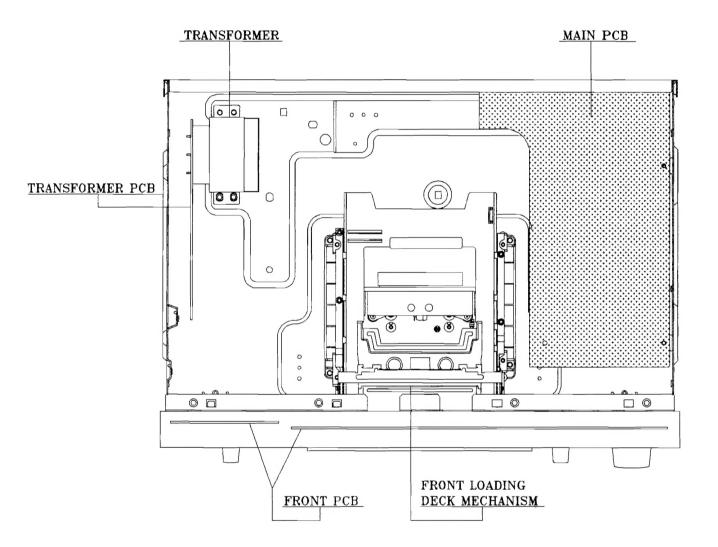
2)ROMOVAL OF FRONT PANEL







PRINCIPAL PARTS LOCATION



MEASUREMENT AND ADJUSTMENT METHODS

Measurement condition

- · Dolby NR position: OFF
- · Make sure heads are clean
- Make sure capstan and pressure roller are clean.

Measuring instruments

- · EVM (Electronic Voltmeter)
- Oscilloscope
- · Frequency counter
- AF Oscillator
- DC Voltmeter
- ATT (Attenuator)
- Resistor (600ohm)

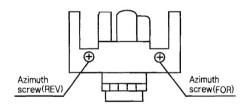
Test tape

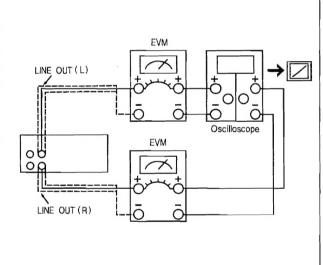
- Head azimuth (10kHz, -10dB): MTT-114N
- Tape speed (3kHz, -10dB): MTT-111N
- · Playback frequency response (125Hz, 1kHz, 10kHz, -10dB)
- · Playback gain: MTT-150
- · Blank tape

Normal blank tape: MTT-5513 CrO₂ blank tape: MTT-5563 Metal blank tape: MTT-5572

HEAD AZIMUTH ADJUSTMENT

- 1. Test equipment connections are shown in fig. 1.
- 2. Playback the head Azimuth test tape and regulate the angle adjust screw so that the outputs of L-ch and R-ch are maximized. (When the adjusting positions are different with L-ch and R-ch, find a position where the outputs of L-ch and R-ch are balanced and then make the adjustment.)
- 3. At the same time, obtain a lissajous waveform and eliminate phase deflection.
- 4. After the adjustment, apply screw lock to the angle adjusting value.



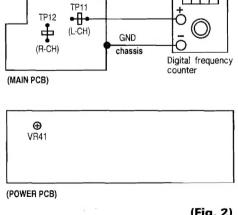


(Fig. 1)

TAPE SPEED ADJUSTMENT

- 1. Test equipment connections are shown in fig. 2.
- 2. Playback the middle part of the test tape. (MTT-111N).

| Adjustment Point | VR41 |
|------------------|---------------|
| Standard Value | 3,000Hz ±30Hz |

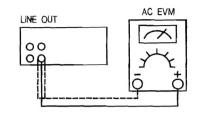


(Fig. 2)

PLAYBACK GAIN ADJUSTMENT

- 1. Test equipment connections are shown in fig. 3.
- 2. Playback the playback gain test tape.(MTT-150).
- 3. Adjust playback gain.

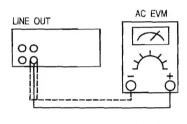
| A discourse A Delina | L ch | R ch | |
|----------------------|------------|------|--|
| Adjustment Point | VR11 | VR12 | |
| Standard Value | alue 540mV | | |



(Fig. 3)

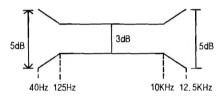
PLAYBACK FREQUENCY RESPONSE

- 1. Test equipment connections are shown in fig. 4.
- 2. Playback the playback frequency response test tape.
- 3. Check that the frequency response is within the range shown in fig. 5 for both L-ch and R-ch.



(Fig. 4)

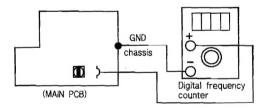
PLAYBACK FREQUENCY RESPONSE



(Fig. 5)

BIAS FREQUENCY ADJUSTMENT

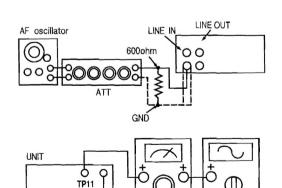
- 1. Test equipment connections are shown in fig. 6.
- 2. Load a CrO2 blank test tape.
- 3. Press the record and pause button.
- 4. Adjusts T351 for 105kHz frequency counter reading.



(Fig. 6)

OVERALL GAIN ADJUSTMENT

- 1. Test equipment connections are shown in fig. 7.
- 2. Insert the normal reference blank tape.
- 3. Place UNIT into record mode.
- Supply a 1kHz signal through ATT (-10dB) from AF oscillator into LINE IN.
- 5. Adjust ATT until monitor level at TP11 (L-ch) or TP12 (R-ch) becomes 180mV.
- Playback recorded tape and make sure that the output level at TP11 (L-ch) or TP12 (R-ch) becomes 180mV
- 7. If measured value is not 180mV, adjust it by using VR21 (L-CH) or VR22 (R-CH).
- 8. Repeat from step (2).



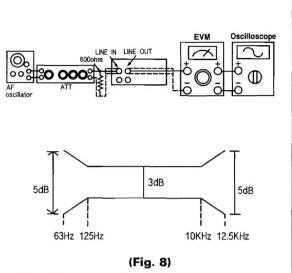
EVM

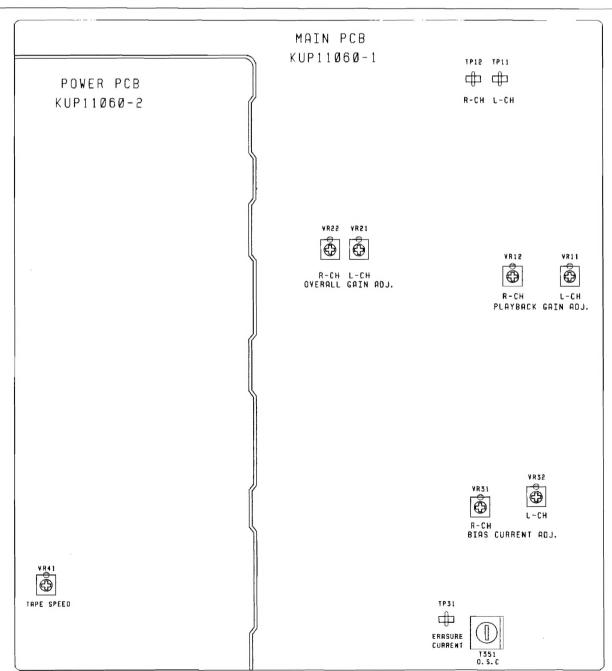
(Fig. 7)

Oscilloscope

OVERALL FREQUENCY RESPONSE

- Set a normal blank tape (MTT-5513) and record the signal (100Hz, 1kHz, 10kHz) applied through ATT from AF oscillator into (LINE IN Level: 35mV).
- Playback the signal recorded in step 1, and check that the output level of each frequency within the range shown in fig. 8 in comparison with the reference frequency (1kHz).
- 3. If it is not within the standard range, adjust the bias current by using VR31 (L-CH) or VR32 (R-CH) so that the frequency level is within the standard.
- Level up in high frequency range ... Increase the bias current.
- Level down in high frequency range ... Decrease the bias current.
- 4. After that, increase the signal frequency recorded on CrO₂ blank tape (MTT-5563) and metal blank tape (MTT-5572) up to 12kHz and adjust in the same way as mentioned above and check that the frequency level is within the range shown in Fig. 8.

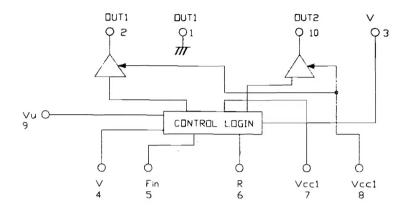




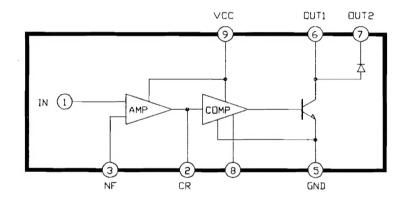
IC PIN FUNCTION MICRO-PROCESSOR'S (ANAM1223D)

| No. | SYMBOL | I/O | DESCRIPTION |
|--------|-------------|-----|---|
| 3~7 | G1~G5 | 0 | FLD GRID SELECTION OUTPUT. |
| 8 | VDD | - | +5V |
| 9~12 | KEYIN | 1 | KEY MATRIX INPUT |
| 13~16 | KEY OUT | 0 | KEY MATRIIX OUTPUT |
| 17 | RESET | 1 | SYSTEM RESET INPUT |
| 18 | AV | - | GROUND OF A/D CONVERTER |
| 21 | STANDBY | 0 | POWER STANDBY INDICATOR OUTPUT |
| 23, 24 | TIMER | 1 | TIMER CONTROLLED INPUT |
| 25 | B. SKIP | 0 | BLANK SKIP INDICATOR OUTPUT |
| 26 | COUNT. M | 0 | COUNTER MEMORY INDICATOR OUTPUT |
| 27 | METER (R) | 1 | LEVEL METER R CH, INPUT |
| 28 | METER (L) | 1 | LEVEL METER L CH, INPUT |
| 29 | AVDD | - | ANALOG ADD OF A/D CONVERTER |
| 30 | AVREF | - | REFERENCE VOLTAGE OF A/D CONVERTER |
| 33 | Vss | - | GROUND |
| 34 | X1 | 1 | CRYSTAL CONNECTION PIN |
| 35 | X2 | 0 | CRYSTAL CONNECTION PIN |
| 38 | MUTE | 0 | MUTE CONTROL OUTPUT FOR LINE OUT |
| 39 | REC ON | 0 | OUTPUT FOR RECORDING MODE |
| 40 | REC MUTE | 0 | RECORDING MUTE OUTPUT |
| 41 | B | 0 | DOLBY B NR SELECTION OUTPUT |
| 42 | C | 0 | DOLBY C NR SELECTION OUTPUT |
| 43 | POWER | 0 | POWER OUTPUT |
| 44 | IPSS | ı | IPSS INPUT |
| 45 | COUNT | 1 | TAPE COUNTER INPUT |
| 46 | REMOTE-IN | 1 | REMOTE CONTROL SENSOR INPUT |
| 47 | BUS-IN | 1 | BUS-LINE DATA INPUT |
| 49 | BUS-OUT | 0 | BUS-LINE DATA OUTPUT |
| 50 | TAPE | 1 | TAPE LOADING DETECTION INPUT |
| 51 | PLAY | 1 | PLAY INPUT |
| 53 | REC-F | ı | REC. PROTECTION TAP DETECTION (FORWARD) INPUT |
| 54 | REC-R | ı | REC. PROTECTION TAP DETECTION (REVERSE) INPUT |
| 55 | OPEN SW | ı | TRAY OPEN SW. INPUT |
| 56 | CLOSE SW | 1 | TRAY CLOSE SW. INPUT |
| 57 | SOL | 0 | SOLENOID CONTROL OUTPUT |
| 58 | MOTOR | 0 | MOTOR DRIVE OUTPUT |
| 59 | CLOSE-MOTOR | 0 | OPEN/CLOSE MOTOR DRIVE OUTPUT (CLOSE) |
| 60 | OPEN-MOTOR | 0 | OPEN/CLOSE MOTOR DRIVE OUTPUT (OPEN) |
| 61~70 | P1~P10 | 0 | FLD SEGMENT SELECTION OUTPUT |
| 72~80 | P11~P16 | 0 | FLD SEGMENT SELECTION OUTPUT |

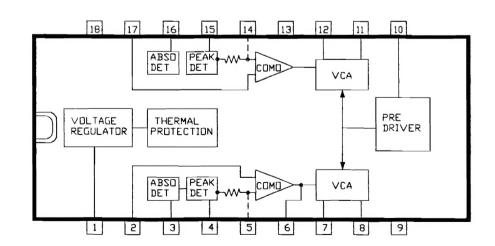
BA6209(Reversible Motor Driver)



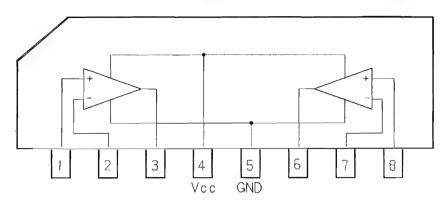
LA2000(Audio Level Sensor)



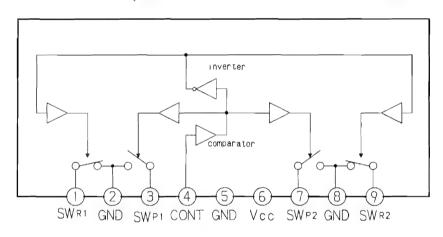
PC1297(DOLBY HX PRO System)



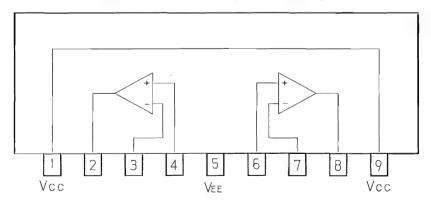
uPC1228HA (low noise pre-amp)



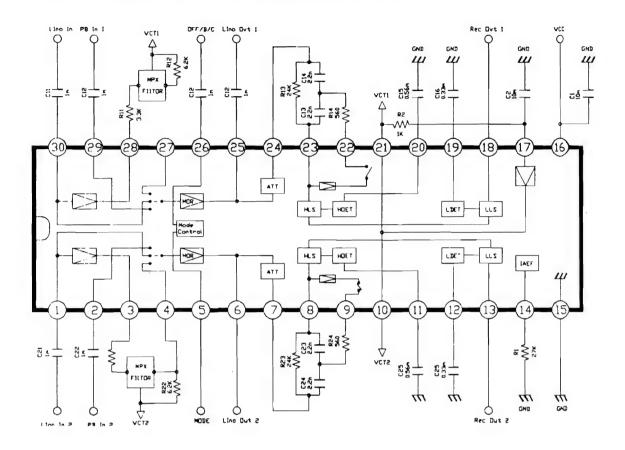
uPC1330HA (REC/PB AUDIO HEAD SWITCH)

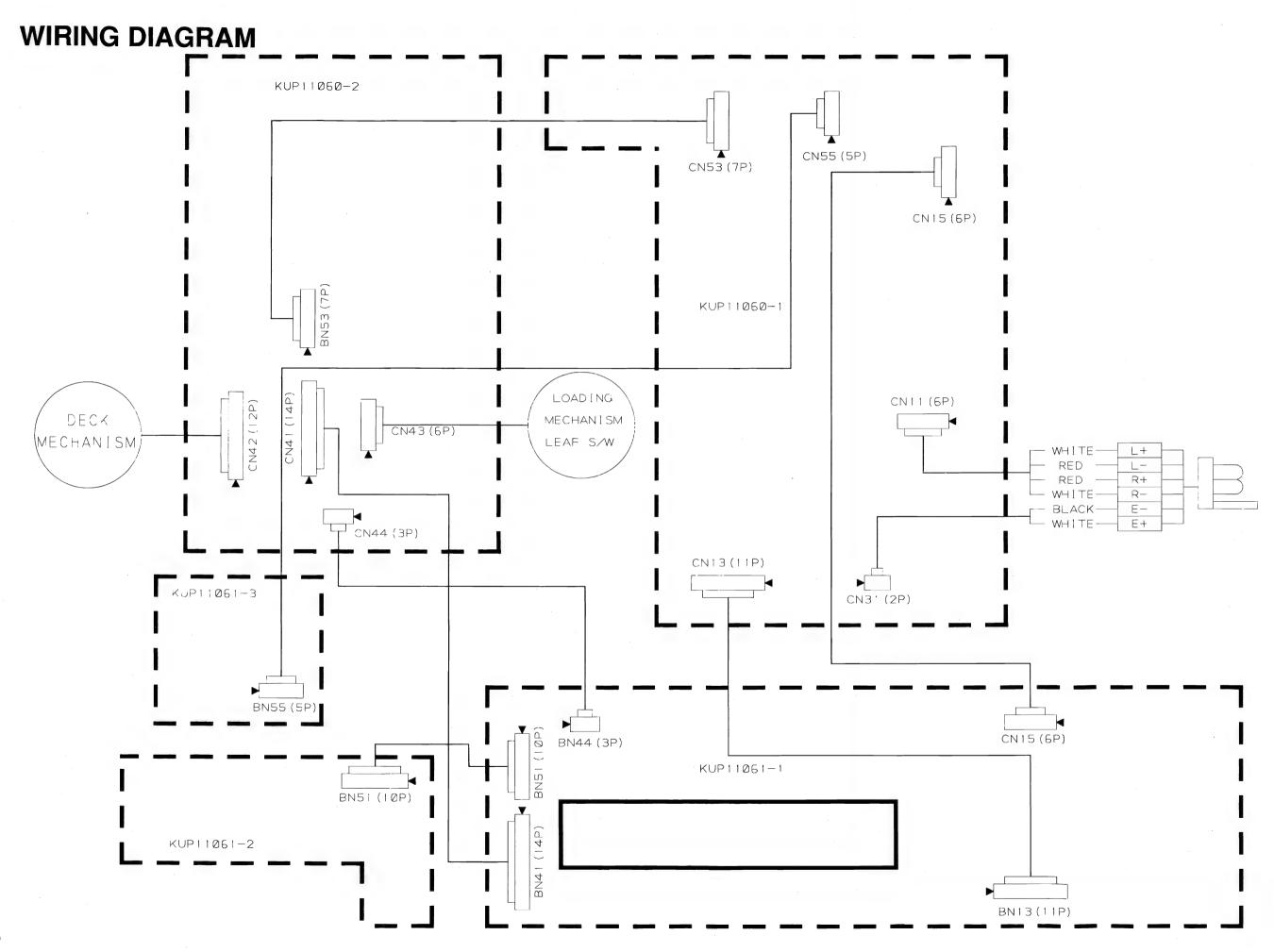


MC 4558S (OP AMP)

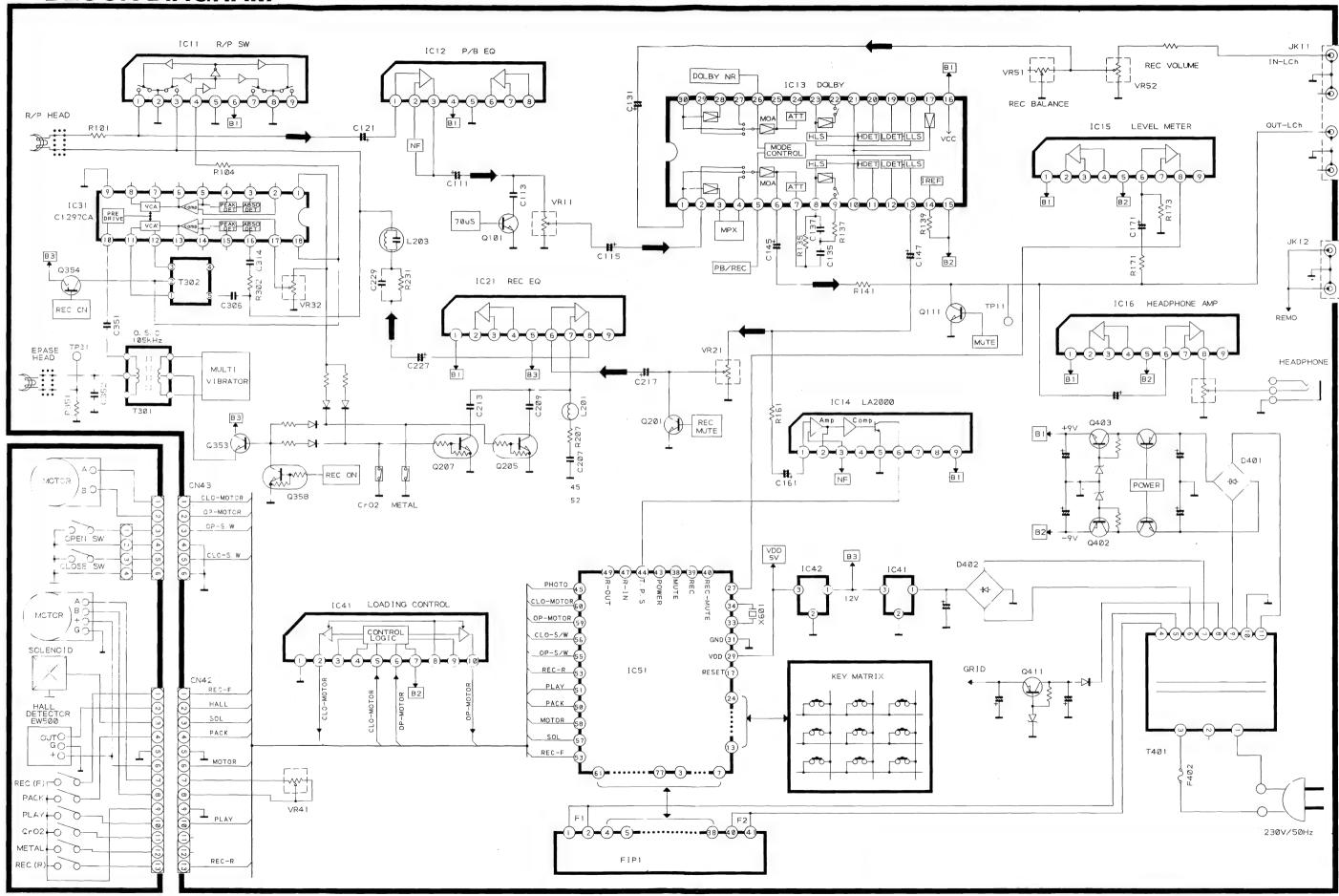


CXA1331S (DOLBY B. C Noise Reduction System)

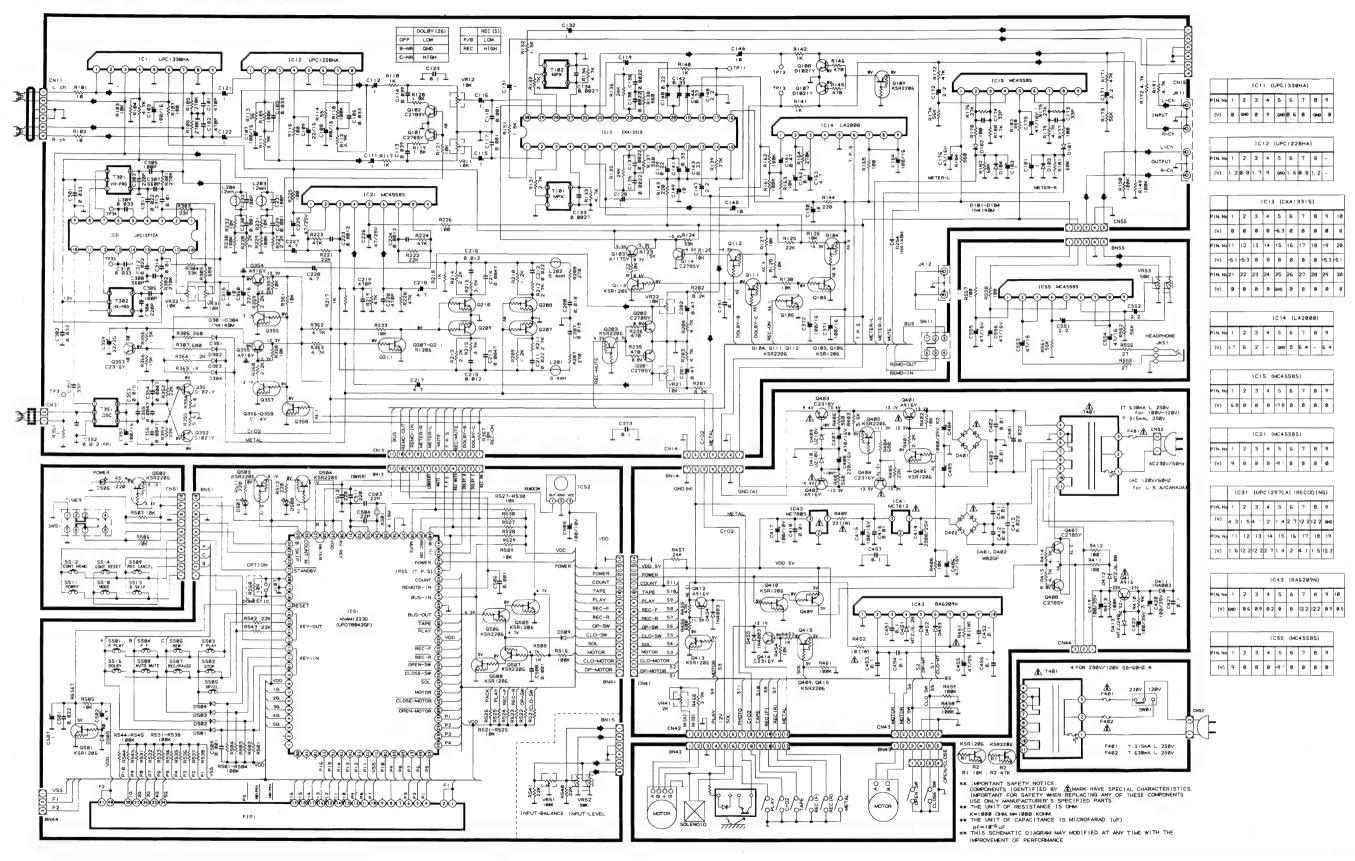


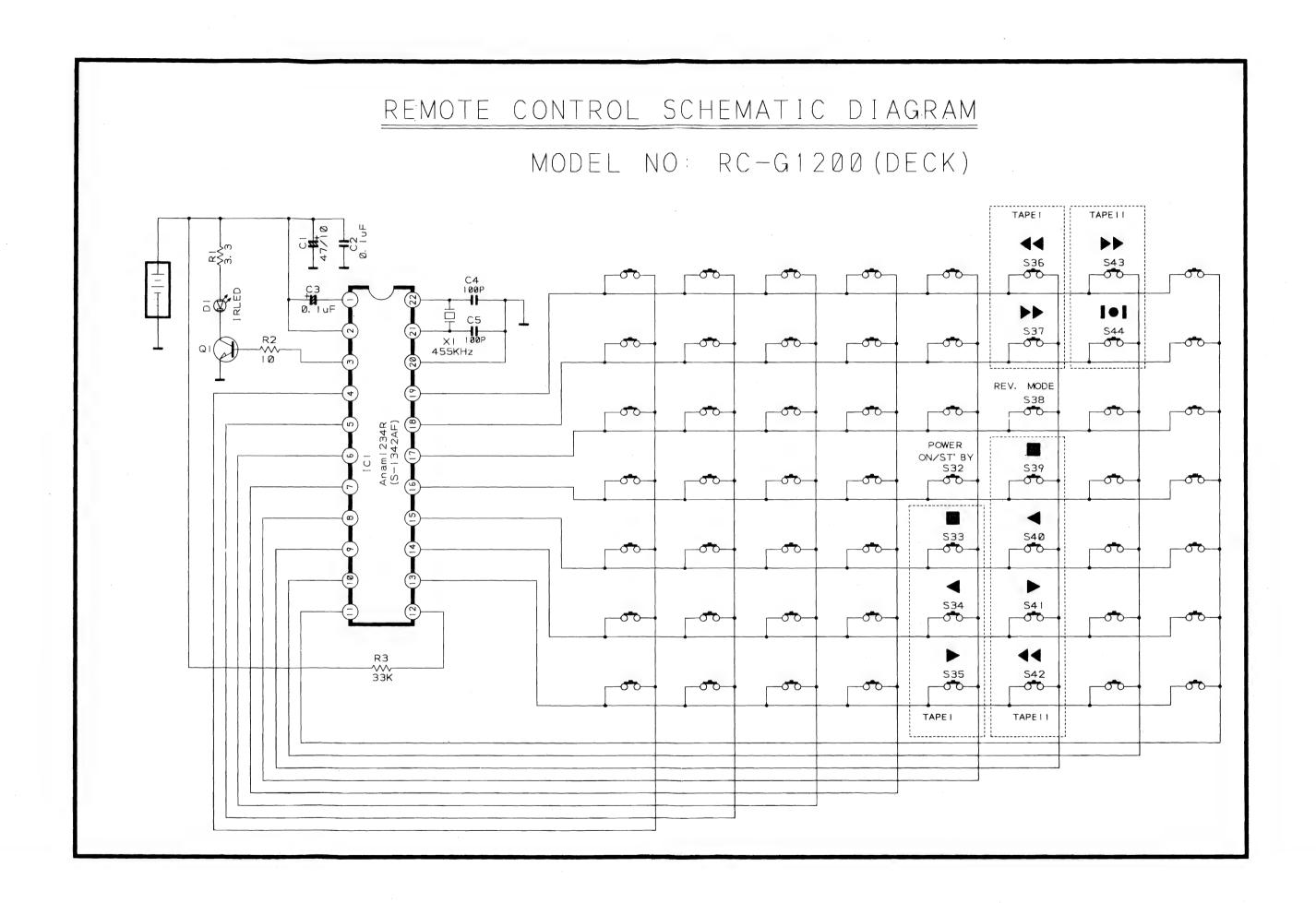


BLOCK DIAGRAM

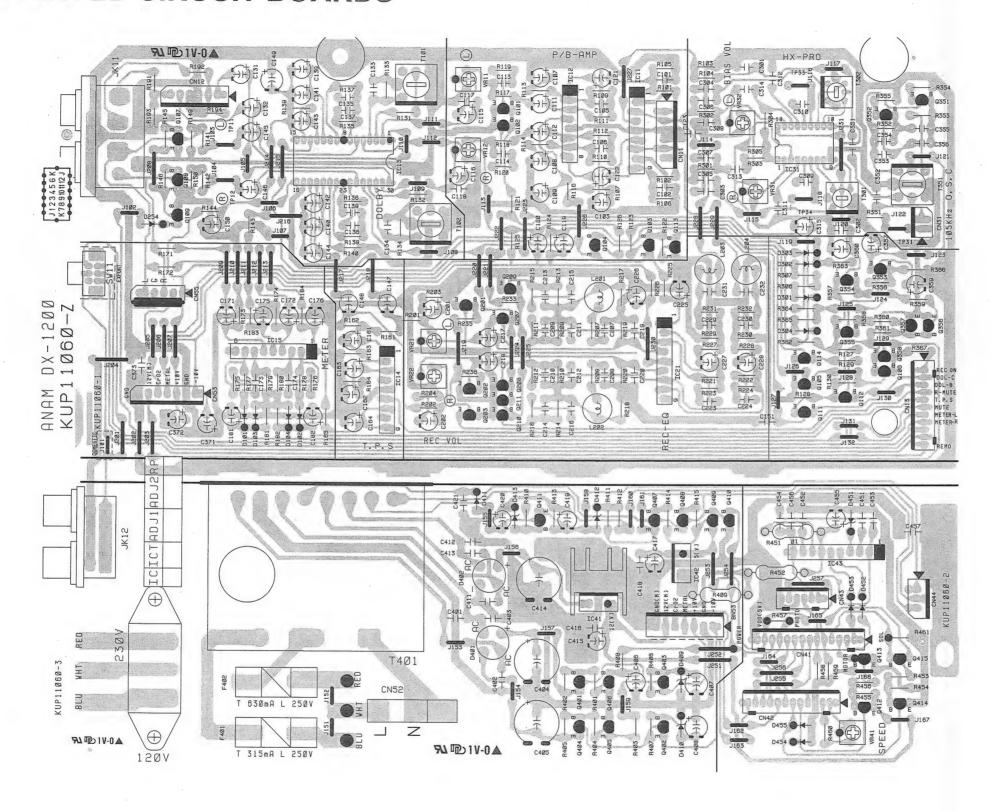


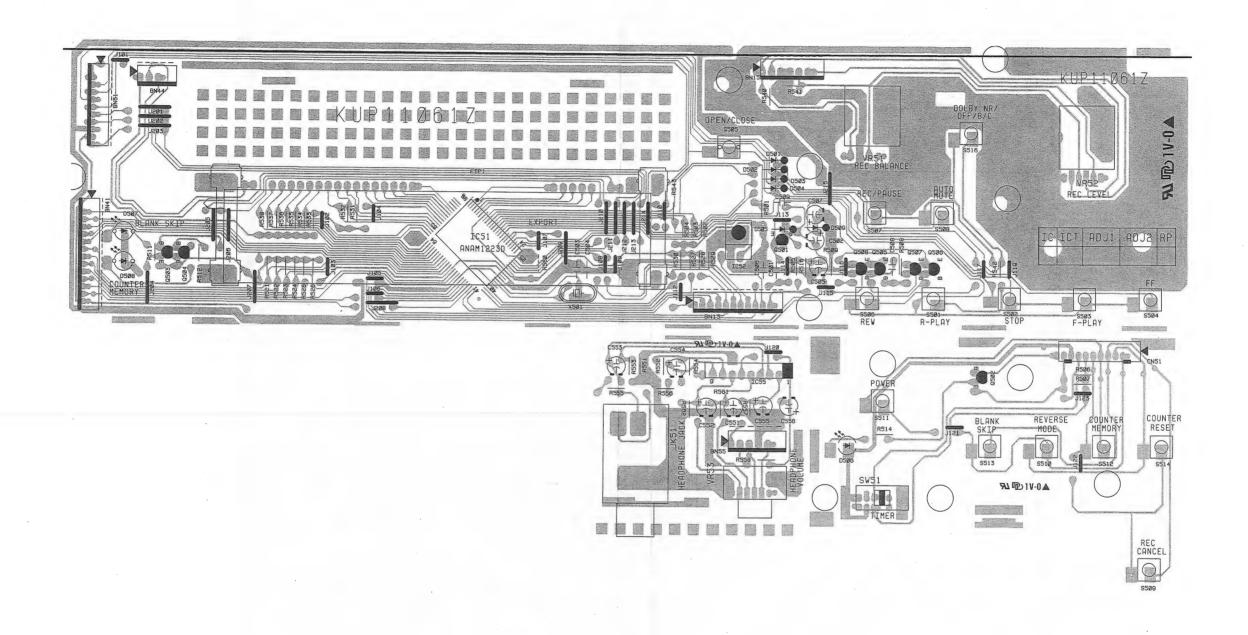
SCHEMATIC DIAGRAM

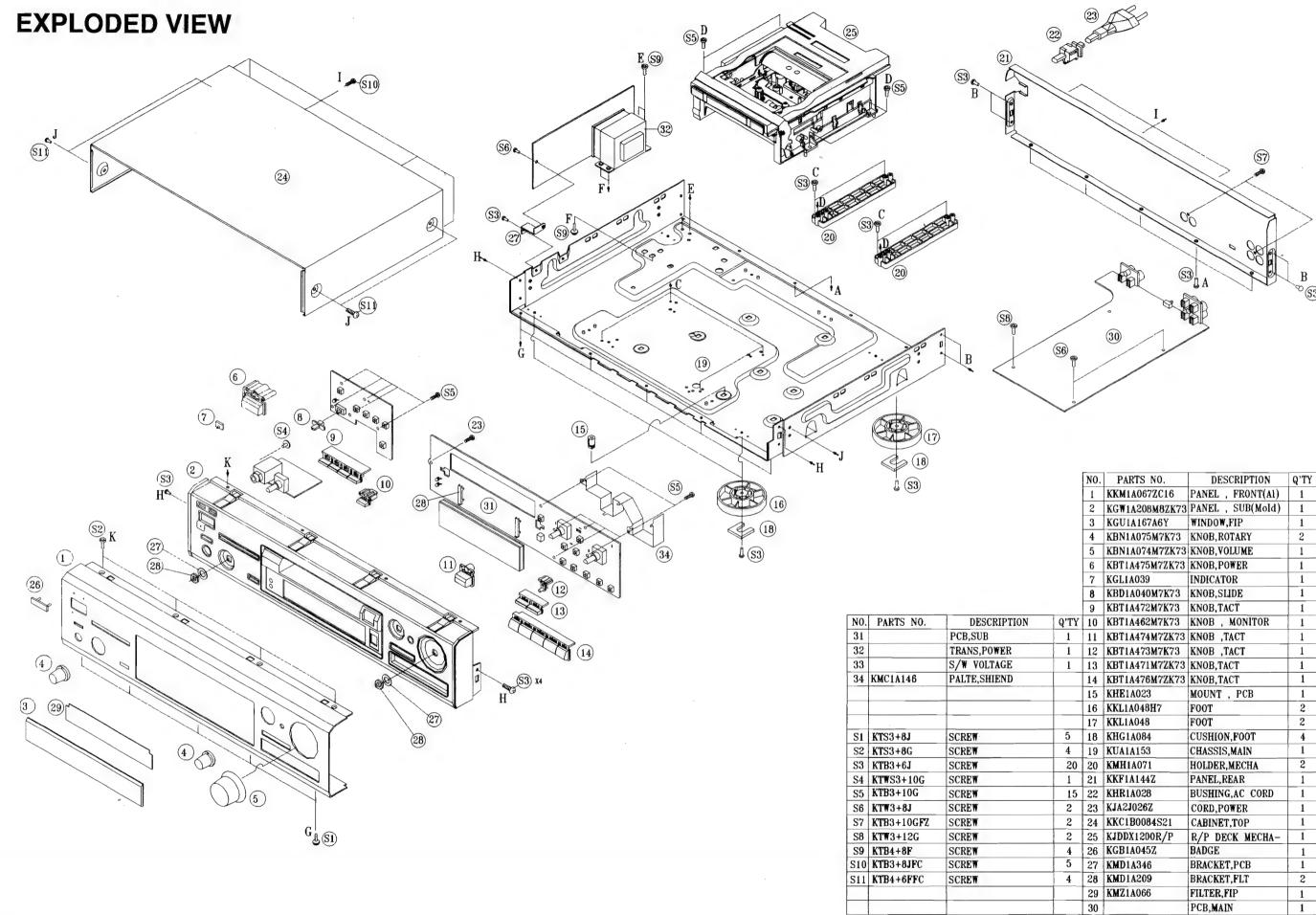




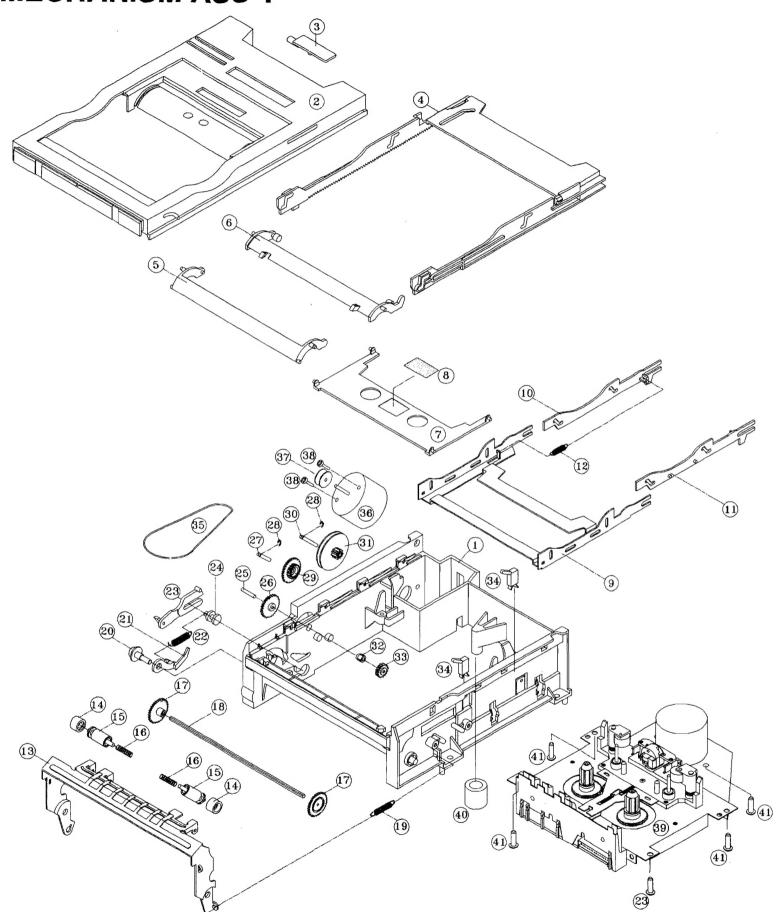
PRINTED CIRCUIT BOARDS







MECHANISM ASS'Y



| NO. | PARTS NO. | DESCRIPTION | Q'TY | REMARKS |
|-----|------------|--------------------------------|------|---------|
| 1 | KDI4A005 | BASE | 1 | |
| 2 | KDD4A005 | TRAY | 1 | |
| 3 | KKR2A019 | STOPPER | 1 | |
| 4 | KKR1A017 | TRNASFER | 1 | |
| 5 | KKR1A016 | LINKER, FRONT | 1 | |
| 6 | KKR1A015 | LINKER, REAR | 1 | |
| 7 | KKR2A014 | PLATTER, TAPE | 1 | |
| 8 | KKR1104B | REFLETOR | 1 | |
| 9 | KKR1A013 | PLATTER, LOADING | 1 | |
| 10 | KDD2A009 | TRAY, SUB(L) | 1 | |
| 11 | KDD2A006 | TRAY, SUB(R) | 1 | |
| 12 | KUS1A063 | SPRING , TRAY | 1 | |
| 13 | KUC1A023 | ARM, PUSH | 1 | |
| 14 | KHR1A026 | ROLL, SILICONE | 2 | |
| 15 | KKG1A026 | HOLDER, BAR | 2 | |
| 16 | KUS1A067 | SPRING ,COIL | 2 | |
| 17 | KDG1A010 | GEAR , TRAY | 2 | |
| 18 | KDF1A009 | SHAFT, BAR SPRING, PUSH ARM | 1 | |
| 19 | KUS1A065 | SPRING , PUSH ARM | 1 | |
| 20 | KHD2A010 | SCREW, SPECIAL | 1 | |
| 21 | KDD2A007 | LATCH | 1 | |
| 22 | KUS1A064 | SPRING, LINKER | 2 | |
| 23 | KKR1A018 | LINKER | 1 | |
| 24 | KDR1A013 | ROLLER | 1 | |
| 25 | KDF3A012 . | SHAFT, PIN | 1 | |
| 26 | KDG3A012 | GEAR(A), IDLE | 1 | |
| 27 | KDF1A010 | SHAFT, GEAR | 1 | |
| 28 | KNW1A010 | E-RING | 2 | |
| 29 | KDG2A013 | GEAR(B), IDLE | 1 | |
| 30 | KDF2A011 | SHAFT, PIN | 1 | |
| 31 | KDR2A014 | GEAR , PULLEY | 1 | |
| 32 | KDD2A008 | BUSHING , SERRATION | 1 | |
| 33 | KDG3A011 | GEAR, PINION | 1 | |
| 34 | BSH1A005Z | SWITCH , LEAF(MLS-1) | 2 | |
| 35 | KDV1A003 | BELT | 1 | |
| 36 | KDM3220B1 | MOTOR | 1 | |
| 37 | KDR1A010 | PULLEY, MOTOR | 1 | |
| 38 | KSB26+4 | SCREW | 2 | |
| 39 | BJD1G2S21Z | DECK MECHANISM | 1 | |
| 40 | KNW1A023 | RING-W | 1 | |
| 40 | KTB3+8G | SCREW | 5 | |

PARTS LIST

ATTENTION

- 1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Part No. is correct when ordering.
 If not, a part different from the one you ordered may be delivered.
- 3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 3. How to read the Parts List.

Resistor and Capacitor

Notes: · Part numbers are indicated for most mechanical parts.

Please use this part number for parts order.

· IMPORTANT SAFETY NOTICE.

Components identified by \triangle mark have special characteristics important for safety.

When replacing any of these components, use only manufacture's specified parts.

The unit of resistance is OHM(Ω)

K=1000(Ω), M=1000(K Ω)

- The unit of capacitance is MICROFARAD(μF).
- $P = 10^{-6} \mu F$

■ Numbering System of Resistor Example

| KRD | 25 | F | J | 101 |
|------|---------|-------|-----------|-------|
| Type | Wattage | Shape | Tolerance | Value |
| | | | | 1 |

| Resistor Type | Wattage | Tolerance |
|------------------|---------|---------------|
| KRD:Carbon | 20:1/5W | F:=±1% |
| KRG:Metal Oxide | 25:1/4W | J:=±5% |
| | 50:1/2W | $K:=\pm 10\%$ |
| | 1:1W | |
| KRF:Metal Cement | 2:2W | |
| | 3:3W | |

■ Numbering System of Capacitor Example

| KCKT | 1H | 101 | K | В |
|------|---------|-------|-----------|-------------|
| Type | Voltage | Value | Tolerance | Peculiarity |

| Citau T | Vol | Tolerance | |
|--------------------|-----------------|------------|--------------|
| Capacitor Type | ECEA Type Other | | |
| KCB:Ceramic | OJ:6.3V | 1H:50V DC | C:±0.25pF |
| KCC:Ceramic | 1A:10V | 1:125V DC | G:±2% |
| KCK:Ceramic | 1C:16V | KC:400V AC | J:±5% |
| KCFR:Semiconductor | 1E:25V | | K:±10% |
| KCQI:Polyester | 1H:50V | | Z:+80%, -20% |
| KCQP:Polypropylene | 1V:35V | | |
| KCQS:Polystyrol | | | |

WARNING

 \triangle (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

△ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRI-CANT.

■ ELECTRICAL PARTS LIST

| REF NO. | PART NO. | DESCRIPTION | REF NO. | PART NO. | DESCRIPTION |
|--|------------------------------|----------------------------------|----------------|-----------------|---------------------------------|
| P. C BOARD BLOCK PART NO. | | Q205~Q211 | KVTKSR1206T | T.R | |
| | | | Q351, 352 | KVTKSD1021YT | T.R |
| | Part No. | Description | Q353, 356 | KVTKSC2316YT | T.R |
| | KOP11060B | MAIN PCB ASS'Y | Q357 | | |
| | KOP11061B | SUB(FRONT) PCB ASS'Y | Q354, 355 | KVTKSA916YT | T.R |
| | | | Q358 | KVTKSR1206T | T.R |
| MAIN PCB BLK CONSISTS OF FOLLOWING P. C. B | | Q401, 402 | ∆ KVTKSA916YT | T.R | |
| * MALN P. C. BOARD | | Q403, 404 | ∧ KVTKSC2316YT | T.R | |
| | * POWER P. C. BO | ARD | Q405, 409 | KVTKSR2206T | T.R |
| | | | Q406, 410 | KVTKSR1206T | T.R |
| SUB(FRONT) PCB BLK CONSISTS OF FOLLOWING P. C. B | | Q407, 408 | KVTKSC2785YT | T.R | |
| * SUB(FRONT) P. C. BOARD | | | | T.R | |
| | * HEADPHONE P. C | . BOARD | Q413 | KVTKSR1206T | T.R |
| | | | Q414 | KVTKSC2316YT | T.R |
| | 1. MAIN PCE | 3 | Q415 | KVTKSR2206T | T.R |
| D101~D105 | KVD1N4148MT | DIODE | R409 | ∆ KRG1ANJ220H | (1W, 22 Ω) |
| D301~D304 | KVD IIV4 I 40IVI I | DIODE | | ∆ KRG1ANJ100H | (1W, 10 Ω) |
| | BVDW02GF | DIODE, BRIDGE | JK11 | KJJ4P009Z | TERMINAL, IN/OUT |
| D401, 402 A | KVDUZ10BMT | · · | KJ12 | KJJ4N008Z | JACK, REMOCON |
| D409, 410 D411, 454 | KVD1N4003SRT | DIODE, ZENER(10V) DIODE, RECT | 1012 | 1334110002 | SACK, NEWOCON |
| | KVD1N40035N1 | DIODE, RECT | VR11, 12 | BVN1PA103B01T | SEMI VR, 10K Ω |
| D455 D412 | KVDMTZJ6.8BT | DIODE ZENERIE OV | VR21, 22 | DVIVITA 103D011 | SLIVII VII, IUK S |
| D412 D413 | KVDMTZJ6.8BT | DIODE, ZENER(6.8V) | VR31, 32 | | |
| D413 D451 | KVDMTZJ24BT KVDMTZJ6.2BT | DIODE, ZENER(24V) | VR41 | BVN1PA202B01T | SEMI VR, 2K Ω |
| D451 | KVDIVITZJ6.2BT | DIODE, ZENER(6.2V) | VR41 | BVN IF AZUZBUTT | SLIVII VII, ZIX & |
| IC11 | BVIUPC1330HA | IC(R/P, SW) | T401 | ∆ KLT5N017ZW | TRANS, POWER [FOR E/B/S/U] |
| IC12 | BVIUPC1228HA | IC(P/B, AMP) | | KLT5N017ZU | TRANS, POWER [FOR U.S.A/CANADA] |
| IC13 | BVICXA1331S | IC(DOLBY) | F401 | ★ KBA2C315TLE | FUSE, 315mA/250V |
| IC14 | BVILA2000 | IC(T. P. S) | | | |
| IC15, 16 | KVIMC4558S | IC(OP AMP) | | 2. SUB PCB | |
| IC21 | | | | | |
| IC31 | BVIUPC1297CA | IC(HX-PRO) | IC51 | BVIANAM1223D | IC(μ-COM) |
| IC41 △ | KVIMC7812C | IC(REGULATOR 12V) | | | |
| IC42 △ | KVIMC7805C | IC(REGULATOR 5V) | Q501 | KVTKSR1206T | T.R |
| IC43 | KVIBA6209N | IC(LOADING MOTOR) | Q502~504 | KVTKSR2206T | T.R |
| IC55 | KVIMC4558S | IC(OP AMP) | Q505, 508 | KVTKSR1206T | T.R |
| | | | Q506, 507 | KVTKSR2206T | T.R |
| T101, 102 | KLM9C002S | COIL, MPX | | | |
| T301, 302 | KLM9B009Z | COIL, HX-PRO | VR51 | BVV1U01W104Y | V/R, BALANCE |
| T351 | BLO8C004-S | COIL, BIAS | VR52 | BVV2X01A503Z | V/R, REC. LEVEL |
| | | | VR53 | BVV2W01A503Z | V/R, PHONES |
| L201, 202 | KLQW542KLZ | COIL, C5.4mH | | | |
| L203, 204 | KLM9C008Z | COIL, TRAP | S501~S515 | BST1A014ZT | SW, TACT |
| | | | SW51 | KSS3B003Z | SW, SLIDE |
| Q101, 102 | KVTKSC2785YT | T.R | FIP1 | BFLFIP5AMW7Y | DISPLAY, FL |
| Q103 | KVTKSA1175YT | T.R | | | |
| Q104 | KVTKSR2206T | T.R | | 3. OTHERS | |
| Q105, 106 | KVTKSR1206T | T.R | | • | |
| Q113 | | | | BJD1G2S21Z | R/P DECK MECHANISM |
| Q107, 108 | KVTKSD1021YT | T.R | | KUR041ZA | REMOTE CONTROL UNIT |
| Q109, 111 | KVTKSR2206T | T.R | | | |
| Q100, 111 | | | | | |
| Q112 | | | | | |
| | KVTKSC2785YT | T.R | | | |
| Q112 | KVTKSC2785YT KVTKSC2785YT | T.R T.R | | | |

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